

**5.4 Worksheet**

Write an equation of the line in Point-Slope Form through the given point and with the given slope  $m$ .

1.  $(2, 1); m = 3$

2.  $(-3, -5); m = -2$

3.  $(-4, 11); m = \frac{3}{4}$

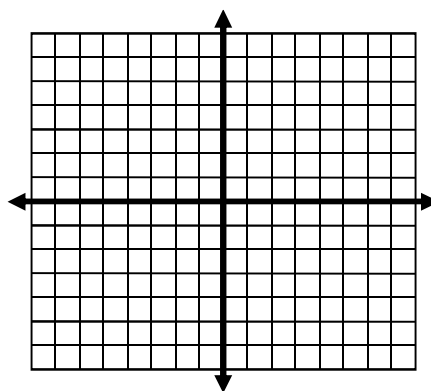
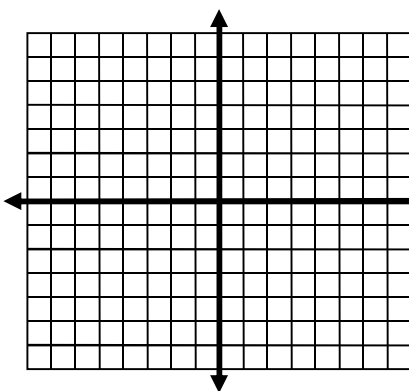
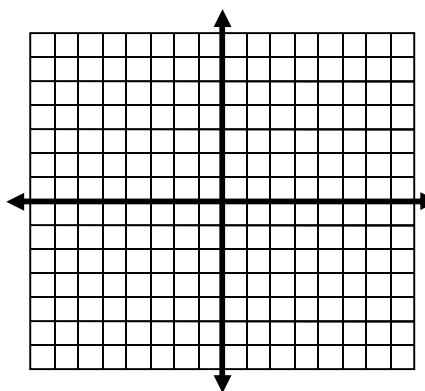
4.  $(0, -3); m = -\frac{2}{3}$

Graph each equation.

5.  $y - 2 = 2(x + 3)$

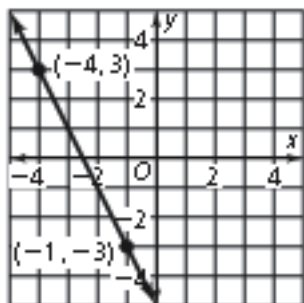
6.  $y + 3 = -2(x + 1)$

7.  $y + 1 = -\frac{3}{5}(x + 5)$

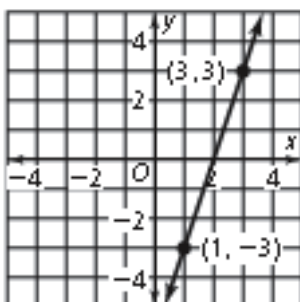


Write an equation in point-slope form for each line.

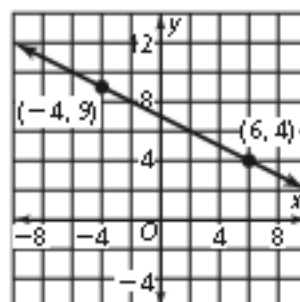
8.



9.



10.



Write an equation in point-slope form of the line through the given points.

11.  $(4, 0), (-2, 1)$

12.  $(-3, -2), (5, 3)$

13.  $(-5, 1), (3, 4)$